

## Section F

## Deliveries or Performance

ARTICLE F-1--SCHEDULE FOR DELIVERABLES

<u>Item No.</u>	<u>Description</u>	<u>Schedule</u>	
Part A - Hardware			
1A	AVHRR/3, S/N A301	March 1992	
2A	AVHRR/3, S/N A302	October 1992	
3A	AVHRR/3, S/N A303	June 1992	
4A	HIRS/3 S/N H301	August 1991	
5A	HIRS/3 S/N H302	May 1992	
6A	HIRS/3, S/N H303	February 1993	
7A	Modify Handling Fixtures/AVHRR/3 (2)	Deliver one with first instrument Deliver one as required	
8A	Modify Handling Fixture/HIRS/3	Deliver with first instrument	
9A	Convertible High/Low Cooler Dust Covers/AVHRR/3	Deliver with each instrument	
10A	Convertible High/Low Cooler Dust Covers/HIRS/3/4	Deliver with each instrument	
11A	Upgrade or Replacement of GSE	2 months prior to required use	
12A	AVHRR/3, Channel 4 Spare Detectors	March 1994	
13A	AVHRR/3, Channel 5 Spare Detectors	March 1994	
14A	AVHRR/3 S/N A304	08/12/98	
15A	Third MetOp AVHRR/3 Instrument	06/02/03	CCR 1958/2 MOD 252
16A	AVHRR/3 S/N A306	09/30/01	MOD 183 CCR1805
17A	AVHRR/3 S/N A307	12/29/01	MOD 209 CCR 1887A
18A	HIRS/3/4 S/N H304	08/31/98	

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item <u>No.</u>	<u>Description</u>	<u>Schedule</u>
19A	HIRS/3/4 S/N H305	06/28/98

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item No.	Description	Schedule	
20A	HIRS/3/4 S/N H306	5/30/01	Mod183 CCR1805
21A	HIRS/3/4 S/N H307	09/02/02	MOD 240 CCR 1937
22A	New Handling and Lifting Fixtures/AVHRR/3	Deliver with first METOP instrument	
23A	New Handling and Lifting Fixtures/HIRS/4)	Deliver with first METOP instrument	
24A	Deleted		
25A	Deleted		
26A	METOP Electrical Ground Support for AVHRR/3 and HIRS/4 (items TBD)	TBD	
27A	AVHRR/3 HIRS/4 Bench Test Cooler Units	2 months prior to required use	
28A	One existing AVHRR/3 Portable Test Unit One existing HIRS/4 Portable Test Unit Modified to Operate on Commercial European Power	Accompany the METOP instruments upon delivery	
29A	HIRS/3/4 Engineering Test Model	5/5/94 plus 30 (ETM) months	
30A	AVHRR/3, HIRS/4 Drill Jigs	Deliver with first METOP instrument	
31A	Deleted		
32A	AVHRR/3, HIRS/4 Thermal/Vacuum Targets	2 months prior to required use	
33A	HIRS/3/4 Critical Spare Assemblies: As referenced under B.1	Required no later than September 4, 1997	
34A	AVHRR/3 Critical Spare Assemblies: As referenced under B.1	Required no later than September 4, 1997	
35A	AVHRR/3 Sunshield S/N A301 and higher	Beginning with delivery of A301	

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>
36A	Second MetOp AVHRR/3 Instrument	03/13/03

CCR 1958R2  
MOD 252

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item No.	Description	Schedule
37A	Automatic Co Registration Equipment test	For use with instrument program
38A	New Bench Check Unit - AVHRR	October 1999
39A	New Bench Check Unit - HIRS	October 1999
40A	Connector Savers for AVHRR/3 and HIRS/4 Delivered (one set per METOP instrument)	To accompany METOP Instruments
41A	Black Target/AVHRR Ambient Visible Channel	Deliver with first METOP instrument
42A	Vertical mounting support/AVHRR/3	To accompany METOP AVHRR Bench Cooler
43A	Vertical mounting support/HIRS/4	To accompany METOP HIRS Bench Cooler
44A	Variable Height Dollies (2)	Deliver with first METOP instrument
45A	Modified AVHRR/3 s/n A303	03/30/02

 MOD 209  
 CCR 1887A

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item No.	Description	Schedule
Part B - Reviews and Meetings		
1B	AVHRR/3 Critical Design Review	As required
2B	AVHRR/3 Pre-Environmental Review	Prior to start of environmental testing of each flight instrument
3B	AVHRR/3 Pre-Shipment Review	Prior to shipment of each flight instrument
4B	HIRS/3/4 Critical Design Review	As required
5B	HIRS/3/4 Pre-Environmental Review	Prior to start of environmental testing of each flight instrument
6B	HIRS/3/4 Pre-Shipment Review	Prior to shipment of each flight instruments
7B	Quarterly Project Status Meeting	Every 3 months
8B	AVHRR Delta Critical Design Review	9 months ARO
9B	Deleted	
10B	Deleted	
11B	HIRS Delta Critical Design Review	9 months ARO
12B	Deleted	
13B	Deleted	
14B	Deleted	

## Part C - Technical Documentation

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>
1C	Alignment and Calibration Book/AVHRR/3	1 month after delivery of each instrument
2C	Alignment and Calibration Book/HIRS/3/4	1 month after delivery of each instrument

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Schedule</u>
3C	Test Reports/AVHRR/3	1 month after delivery of each instrument
4C	Test Reports/HIRS/3/4	1 month after delivery of each instrument
5C	Test Plans Updates/AVHRR/3	As Required
6C	Test Plans Updates/HIRS/3/4	As Required
7C	Test Procedure Updates/AVHRR/3	As Required
8C	Test Procedure Updates/HIRS/3/4	As Required
9C	Technical Description Document with Reduced Size Set of all Electrical and Selected Major Mechanical Drawings/AVHRR/3	At time of Pre- Environmental Review
10C	Technical Description Document with Reduced Size Set of all Electrical and Selected Major Mechanical Drawings/HIRS/3/4	At time of PreEnvironmental Review
11C	Specific Full Sized Drawings/ AVHRR/3	As Required
12C	Specific Full Sized Drawings/ HIRS/3/4	As Required
13C	Reduced-Sized Drawings/AVHRR/3	1 month after CDR
14C	Reduced-Sized Drawings/HIRS/3/4	1 month after CDR
15C	Pre-Ship Review Data Package/ AVHRR/3	1 week prior to review for each flight instrument
16C	Pre-Ship Review Data Package/ HIRS/3/4	1 week prior to review for each flight instrument
17C	Ground Support Equipment Instruction Manuals/AVHRR/3	Deliver with first instrument



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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>
18C	Ground Support Equipment Instrument Manuals/HIRS/3/4	Deliver with first instrument

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item No.	Description	Schedule
19C	Photographs/AVHRR/3	Deliver with first instrument
20C	Photographs/HIRS/3/4	Deliver with first instrument
21C	Instrument Calibration Data on instrument Tapes and IBM-PC 3.5" Compatible Diskette Form for use by NOAA and Format of each instrument Description/AVHRR/3	Deliver with each
22C	Instrument Calibration Data on instrument Tapes and IBM-PC 3.5" Compatible Diskette Form for use by NOAA and Format of each instrument Description/HIRS/3/4	Deliver with each
23C	Optical HIRS Data in Graphical and instrument IBM-PC 3.5" Compatible Diskette Form	Deliver with each
24C	Combined AVHRR/3 and HIRS/3/4 Monthly Progress Report	See Article F-4
25C	Quarterly Review Data Packages	At Review
26C	Deleted	
27C	AVHRR/3 Configured Article List	1 copy with each instrument or GSE
28C	HIRS/3/4 Configured Article List	1 copy with each instrument or GSE
29C	AVHRR/3 Drawing Tree	As Generated
30C	HIRS/3/4 Drawing Tree	As Generated
31C	AVHRR/3 Configuration Changes	As Generated

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>
	Class I	
32C	HIRS/3/4 Configuration Changes Class I	As Generated

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## Deliveries or Performance

ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item No.	Description	Schedule
33C	AVHRR/3 Configuration Changes Class II	As Generated
34C	HIRS/3/4 Configuration Changes Class II	As Generated
35C	Deleted	
36C	AVHRR/3 Indentured Drawing List	As updated Quarterly
37C	HIRS/3/4 Indentured Drawing List	As updated Quarterly
38C	Deleted	
39C	AVHRR/3 Engineering Test Reports	Monthly
40C	HIRS/3/4 Engineering Test Reports	Monthly
41C	AVHRR/3 Instrument Magnetic Field Letter Report	1 month after Measurement of Magnetic Field
42C	HIRS/3/4 Instrument Magnetic Field Letter Report	1 month after Measurement of Magnetic Field
43C	Deleted	
44C	Deleted	
45C	AVHRR/3 Thermal Analysis	1 month after CDR
46C	HIRS/3/4 Thermal Analysis	1 month after CDR
47C	AVHRR/3 Instrument Calibration Software and Documentation	When required. Not earlier than 3 months after delivery of last AVHRR.

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>
48C	HIRS/3/4 Instrument Calibration Software and Documentation	When required. Not earlier than 3 months after delivery of last HIRS.
49C	Deleted	
50C	Deleted	

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item No.	Description	Schedule
51C	Deleted	
52C	Deleted	
53C	Deleted	
54C	Deleted	
55C	Deleted	
56C	Deleted	
57C	Deleted	
58C	Deleted	
59C	Deleted	
60C	Deleted	
61C	Deleted	
62C	Deleted	
63C	Deleted	
64C	Deleted	
65C	Deleted	
66C	Ground Support Equipment Instruction Manuals/AVHRR	Deliver with first instrument METOP
67C	Ground Support Equipment Instruction Manuals/HIRS	Deliver with first instrument METOP
68C	Deleted	
69C	Deleted	
70C	Deleted	
71C	Deleted	

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>
72C	Deleted	
73C	Deleted	

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item No.	Description	Schedule
74C	Deleted	
75C	Deleted	
76C	Deleted	
77C	Deleted	
78C	Deleted	
79C	Deleted	
80C	Deleted	
81C	Deleted	
82C	Deleted	
83C	Deleted	
84C	Deleted	
85C	Deleted	
86C	Deleted	
87C	Deleted	
88C	Deleted	
89C	Deleted	
90C	Reserved	
91C	Reserved	
92C	AVHRR/Thermal Analysis	1 month after CDR
93C	HIRS Thermal Analysis	1 month after CDR
94C	Deleted	
95C	Deleted	



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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>
96C	Deleted	

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item No.	Description	Schedule
97C	The following items (a through d) shall be submitted (A)	Updates, as generated
	a. Procedure for control of unscheduled activities during integration and verification testing	
	b. Contractor's derating policy	
	c. Software Assurance Program Plan	
98C	Previously designed, fabricated, or flown hardware data	
	a. Update (A)	At time of GSFC Flight Assurance CDR
99C	POES Flight Assurance Review Data Package (I)	2 weeks before review meeting
100C	Verification Plan	
	a. Initial (A)	With proposal
	b. Baseline (A)	With contract
	c. Update (A)	At time of POES Flight Assurance CDR
101C	Verification Specification	
	a. Baseline (A)	With contract
	b. Update (A)	At time of POES Flight Assurance CDR
102C	Verification Procedures (R)	30 days before the particular test activity for subsystems and instrument levels
103C	Verification Reports (I)	30 days after completion of activity

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item No.	Description	Schedule
104C	Operations Hazard Analyses (R)	30 days before an activity or use of a facility
105C	Waivers (A)	As generated
106C	Safety Data Package (A)	At time of POES Flight Assurance CDR
107C	Parts Control Plan (A)	At time of POES Flight Assurance CDR
108C	Parts Identification List (I)	a. 90 days ACA b. Update 30 days before POES Flight Assurance CDR c. 30 days after any change to list
109C	Data on cured, out-of-date materials and Application of Materials (A)	30 days before use of materials
110C	Performance Assurance Status Report (I)	Monthly as part of combined AVHRR and HIRS Monthly Progress Report
111C	Engineering Drawings (I)	Upon request
112C	Materials List (in-organic and polymeric) lubrication list, processes list	
	a. Final Flight Assurance CDR (A)	30 days before POES Flight Assurance CDR
	b. Updates (A)	As changes are made; between POES Flight Assurance CDR and delivery

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item No.	Description	Schedule
113C	Failure Mode, Effects and Criticality Analyses and Critical Parts List	
	a. Final (R)	30 days before POES Flight Assurance CDR
	b. Updates (R)	With Class 1 changes
114C	Parts Stress Analyses	
	a. Final (R)	30 days before POES Flight Assurance CDR
115C	Trend Analyses	
	a. List of parameters to be monitored (I)	At time of POES Flight Assurance CDR
	b. Trend Analysis (I)	As generated
116C	Limited-Life List	
	a. Final (R)	30 days before POES Flight Assurance CDR
	b. Updates (R)	As changes are made; between POES Flight Assurance CDR and delivery
117C	Fabrication and Assembly Flow Plan (R)	30 days before POES Flight Assurance CDR
118C	Electrostatic Discharge Control Plan (A)	30 days before POES Flight Assurance CDR
119C	MRB Decisions on Nonconformances (I)	As generated
120C	Request for Repair/Use-as-is (A)	30 days before POES Flight Assurance CDR
121C	Standard Repair Procedures (A)	30 days before POES Flight Assurance CDR

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

<u>Item No.</u>	<u>Description</u>	<u>Schedule</u>
122C	Malfunction/Failure Reporting (A)	As generated
	a. Notification (I)	
	b. Written Notification (MR Form) (I)	
	c. Malfunction/Failure Report Close-out(A)P/8.13.2.2 Non-Flight Malfunction Report Close-out (I)	
123C	Response to Alerts (R)	10 Working days after receipt of notification
124C	Alerts (I)	As generated
125C	Procedures for Product Handling	
	a. Preliminary (I)	30 days before POES Flight Assurance
	b. Final (A)	30 days before use
126C	Acceptance Data Package for-each end-item comprising (R)	At time of delivery of each end-item
	a. As-built configuration list in accordance with paragraph 8.16	
	b. List of parts used in the hardware prepared in accordance with paragraph 5.3.2	
	c. List of materials and processes that were used in the hardware	
	d. Test Log Book, including total operating time and cycle records	
	e. List of open items with reasons for items	
	f. Safety Compliance Data Package	
	g. Listing and status of all identified life-limited items	

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>
	h. Critical parameters trend data	
	i. Results of the final comprehensive performance	



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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item No.	Description	Schedule
127C	Contamination Control Plan:	
	a. Final	At POES Flight Assurance CDR
A/ = AVHRR/3	GSFC Specification S-480-81	
H/ = HIRS/3/4	GSFC Specification S-480-82	
S/ = SOW	GSFC Specifications dated 8/5/96	

## Part D - Administrative Documentation

1D	Material Inspection and Receiving Report (DD Form 250)	At the time of each applicable delivery
2D	Reports of Reportable Items and Disclosure of Inventions, Interim Reports, Final Reports, etc.	As prescribed in NASA FAR Supplement 18-52.227-72
3D	Updated WBS Diagram and Supporting Summary Task Description	As necessary
4D	Financial Reporting of Government-Owned/Contractor Held Property	Annually, no later than July 31 each year and at contract completion
5D	Reporting of Centrally Reportable Equipment (DD Form 1419)	When applicable, 30 days in advance of intent to acquire or fabricate an item of Centrally Reportable Equipment" (DD 1419)

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>
6D	Financial Management Reports (NASA Forms 533M and 533Q)	Initial report due 30 calendar days after the contract award date; monthly reports due by 20th day of the month following the close of the contractor's monthly accounting period; quarterly reports due the 20th day of the month preceding the quarter being reported.

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ARTICLE F-1--SCHEDULE FOR DELIVERABLES (Cont'd)

Item		
<u>No.</u>	<u>Description</u>	<u>Schedule</u>
7D	Subcontracting Reports	Semiannually; April 25 and October 25 each calendar year
8D	Reports on NASA Subcontracts	Due as soon as possible after execution of a subcontract; negative reports if applicable, due annually by October 31 of each year (NASA Form 667)
9D	Insurance Notification	Coverage as required by the clause and notification as required by the article